

Timothy Delille

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Education

University of California, Berkeley, Master of Engineering in *Electrical Engineering and Computer Sciences* (EECS) with a specialization in **Data Science and Systems** • 3.75/4.0 GPA 2019-2020
Berkeley, CA

- Coursework: *Machine Learning, Applied Stochastic Processes, Financial Engineering Systems, Convex Optimization, Principles and Techniques of Data Science, Natural Language Processing*
- Fung Excellence Fellow

Arts et Métiers ParisTech, Combined BSc and MSc in *Mechanical and Industrial Engineering* • 3.93/4.0 GPA 2017-2019
Paris
Lille

- One of France's top-ranking Grandes Écoles for Engineering (combined Bachelor of Science and Master of Science)
- Coursework: *Advanced Controls Systems, Kalman Filtering Theory, Financial Analysis, Optimization and Numerical Methods, Power Electronics, Continuum Mechanics and Finite Element Methods*
- Louis Magne Fellow

Lycée Sainte-Geneviève, Versailles, Preparatory program • 3.81/4.0 GPA 2015-2017
Versailles

- Two years of intensive program in France's top-ranking school leading to nationwide entrance examinations to the Grandes Écoles for scientific studies
- Coursework: *Linear Algebra, Probability and Stochastic Processes, Vector Calculus, Vector-valued functions, multivariate calculus, Improper Integrals, Differential Systems*

ABIBAC Certificate, Lycée Richelieu • awarded with highest honours 2012-2015
Paris

- Combination of the German Abitur and the French scientific Baccalaureat with concentrations in mathematics and engineering sciences

Project Work

Capstone Project / Research Work: Artificial Intelligence and Blockchain under the supervision of **Prof. Dawn Song** 2019-2020

- Applying secure computation and blockchains to train machine learning models on large-scale datasets while preserving data privacy

Dassault UAV Challenge under the supervision of **Prof. Nazih Mechbal** 2018-2019

- Competition between France's top engineering schools, whose aim is to program a drone to deliver packages and detect targets autonomously
- Successfully trained object detection neural networks (SSD, YOLOv3) using computer generated training images

CREDA start-up program under the supervision of **Prof. Patrice Dubois** 2018-2019

- One of the seven students selected to be part of a start-up creation program
- Used data-analytics and clustering algorithms to help e-commerce businesses develop targeted marketing strategies
- Developed a web-app whose goal was to centralize the sale of instrumental rights

Internship Experience

Eurovia Management, Paris: Data Scientist Intern under the supervision of **Regional Director Nicolas Wolff** May – Aug
2019

- Co-founded **Elena**, a start-up using deep learning algorithms on embedded devices (NVIDIA's Jetson Nano GPU) whose aim is to detect contexts from video streams and predict dangerous situations on building sites
- In addition to its support from Eurovia, **Elena** received the **Jacobs Institute Innovation Catalysts** grant from the **CITRIS Invention Lab** and the **Jacobs Institute** at University of California, Berkeley

Institute of Transportation Studies, University of California, Berkeley: Research assistant under the supervision of **Director, Prof. Alexandre Bayen** Jul – Sept
2018

- Developed a crowdsourcing website to gather knowledge about the impact of navigational apps on communities
- Developed **ACCESS Magazine's** new website, edited by UCLA and UC Berkeley Faculty members
- Developed the EE290O Flow-course website (*Deep multi-agent reinforcement learning with applications to autonomous traffic*)

Safran Electronics & Defense, Paris: Supply Chain Intern Jun – Jul
2018

- Used data analytics and flow management methods to optimize processes used on the *Rafale* production line

Core Competencies

- Python (*Pandas, TensorFlow, Pytorch, Scikit-Learn, Seaborn...*), Matlab, SQL, Web-scraping I.T. Skills
- Statistical Learning Models, Stochastic Calculus in Mathematical Finance, Quantitative Analysis and Data Visualization
- Web Development (HTML/CSS/Bootstrap, JavaScript/jQuery, PHP, MySQL)
- French (mother tongue) • English (TOEFL: 111/120) • German (fully operational): Abitur (= A levels) Languages

Awards and Societies

- Hackathon First Prize Winner**: innovative ways of using A.I. for performance and prevention (organized by **Eurovia**) March 2019
- Citadel's **Data Open Datathon** at UC Berkeley October 2019
- Member of the **Berkeley Investment Group** 2019-2020
- Instructor for sophomores in **applied mathematics** 2017-2019